Page : 2 of 9

## IN THE CLAIMS:

1. (Currently Amended) A rotation angle-detecting device comprising:

a main rotator;

a first detecting rotator having a contact with the main rotator, the first detecting rotator and for rotating faster than the main rotator;

a first magnet disposed located at a center of the first detecting rotator;

a first magnetic detector <u>disposed located</u> adjacent to a surface opposite to the first magnet;

a second detecting rotator having a contact with the first detecting rotator, the second detecting rotator differently for rotating differently in speed from the first detecting rotator;

a second magnet disposed located at a center of the second detecting rotator;

a second magnetic detector <u>disposed\_located</u> adjacent to a surface opposite to the second magnet; and

a <u>first</u> ferromagnetic body <u>disposed so as to encircle encircling one of said first or second</u>

magnets, and incorporated in and thus rotatable with any one of the first magnet, <u>or</u> the second <u>detecting rotators</u>, magnet the first magnetic detector and the second magnetic detector.

2. (Currently Amended) The rotation angle-detecting device of Claim 1, wherein each of the first magnetic detector and the second magnetic detector has includes an anisotropic magnetic resistance element.

Page : 3 of 9

3. (Cancelled)

4. (Cancelled)

5. (Currently Amended) The rotation angle-detecting device of Claim 1 <u>further comprising a</u> second ferromagnetic body incorporated in one of the first magnetic detector or the second magnetic detector,

wherein when the first ferromagnetic body is incorporated in the first detecting rotator,
the second ferromagnetic body is incorporated in the second magnetic detector, and when the
first ferromagnetic body is incorporated in the second detecting rotator, the second ferromagnetic
body is incorporated in the first magnetic detector.

- 6. (Currently Amended) The rotation angle-detecting device of Claim 1, wherein the <u>first</u> ferromagnetic body is made of comprises a ring-shaped iron plate.
- 7. (Currently Amended) The rotation angle-detecting device of Claim 1, wherein the <u>first</u> ferromagnetic body is formed of comprises pieces arranged in a form of a ring.

Page : 4 of 9

8. (Currently Amended) The rotation angle-detecting device of Claim 1 further comprising a calculator for calculating a rotation angle of the main rotator according to output outputs from the first magnetic detector and the second magnetic detector.

- 9. (Currently Amended) The rotation angle-detecting device of Claim 8, wherein the calculator ealculates is for calculating the rotation angle of the main rotator from a phase difference in output between the outputs of the first magnetic detector and the second magnetic detector.
- 10. (New) A rotation angle-detecting device comprising:
  - a main rotator;
- a first detecting rotator having contact with the main rotator, and for rotating faster than the main rotator;
  - a first magnet located at a center of the first detecting rotator;
  - a first magnetic detector located adjacent a surface opposite the first magnet;
- a second detecting rotator having contact with the first detecting rotator, the second detecting rotator for rotating at a different speed than the first detecting rotator;
  - a second magnet located at a center of the second detecting rotator;
  - a second magnetic detector located adjacent a surface opposite the second magnet; and
- a first ferromagnetic body encircling and fixed with respect to one of the first magnetic detector and the second magnetic detector.

Page : 5 of 9

11. (New) The rotation angle-detecting device of Claim 10, wherein each of the first magnetic

detector and the second magnetic detector includes an anisotropic magnetic resistance element.

12. (New) The rotation angle-detecting device of Claim 10 further comprising a second

ferromagnetic body incorporated in one of the first detecting rotator and the second detecting

rotator,

wherein when the first ferromagnetic body is fixed with respect to the first magnetic

detector, the second ferromagnetic body is incorporated in the second detecting rotator, and

when the first ferromagnetic body is fixed with respect to the second magnetic detector, the

second ferromagnetic body is incorporated in the first detecting rotator.

13. (New) The rotation angle-detecting device of Claim 10, wherein the first ferromagnetic body

comprises a ring-shaped iron plate.

14. (New) The rotation angle-detecting device of Claim 10, wherein the first ferromagnetic body

comprises pieces arranged in a form of a ring.

15. (New) The rotation angle-detecting device of Claim 10 further comprising a calculator for

calculating a rotation angle of the main rotator according to outputs from the first magnetic

detector and the second magnetic detector.

Page : 6 of 9

16. (New) The rotation angle-detecting device of Claim 15, wherein the calculator is for calculating the rotation angle of the main rotator from <u>a</u> phase difference in the outputs of the first magnetic detector and the second magnetic detector.